Lightning

- Lightning often strikes as far as 10 miles away from the parent thunderstorm
- You are in danger from lightning if you can hear thunder
- Travels around 90,000 miles per second
- Thunder is caused by the rapid expansion of air caused by the intense heat of lightning.
- About 50,000 deg F 3 X hotter than the surface of the sun

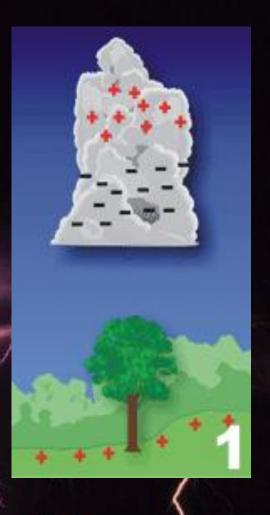


Types of Lightning

- There are 4 different types of lightning
- Cloud to Ground (CG) Most dangerous and biggest problem in the western U.S. with regards to fire.
 - In Cloud (IC)
 - Cloud to Cloud (CC)
 - Cloud to Air (CA)

How does cloud-to-ground lightning form?

Step 1—Electrical charges separate in the



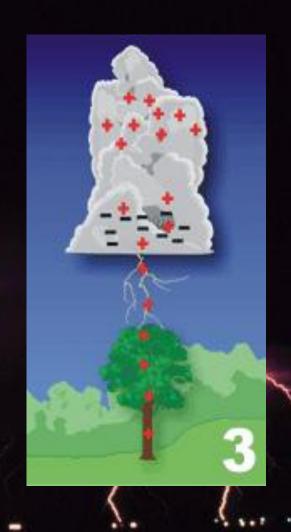
How does cloud-to-ground lightning form?

Step 2—Invisible channel descends from the cloud. This is called a Step Leader.



How does cloud-to-ground lightning form?

Step 3—Channel (Positive Streamer) rises from an object to form a complete path for the release of charge buildup. The surge o electricity creates the visible lightning flash.



Cloud to Ground Lightning



National Weather Service

Lightning Safety

- Postpone activities promptly.
 Don't wait for rain.
- Be the lowest point.
 Lightning usually hits the tallest object.
- If you can't get to a shelter, stay away from trees.
- Avoid leaning against vehicles.
- Lightning can strike up to 10 miles away from the parent thunderstorm.

